

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P951468

Luminaire Tested: **GALN-SB5C-840-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB5C-840-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

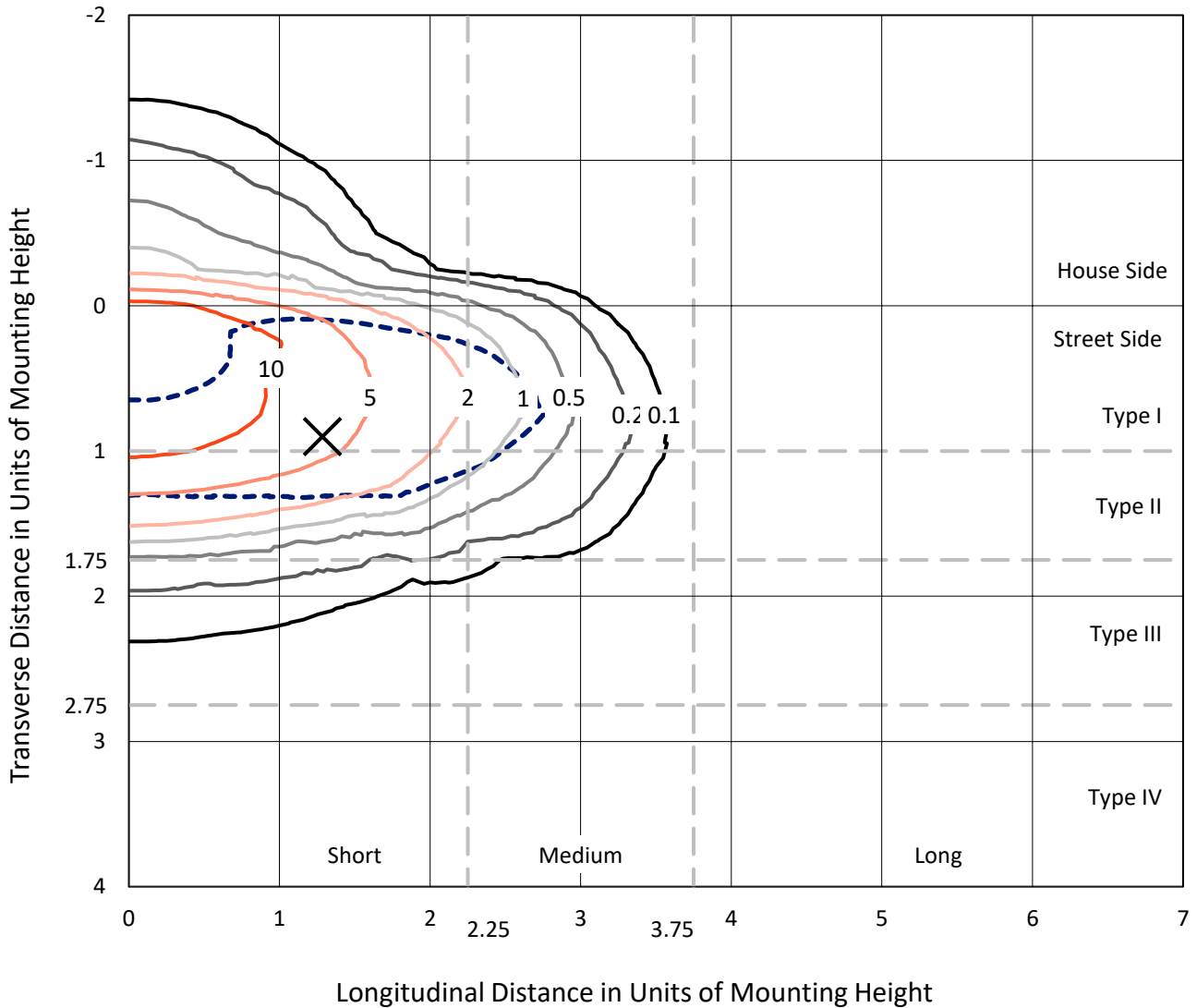
Lumens per Lamp: N/A  
Luminaire Lumens: 30853 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 249.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P951468  
 CATALOG NUMBER: GALN-SB5C-840-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

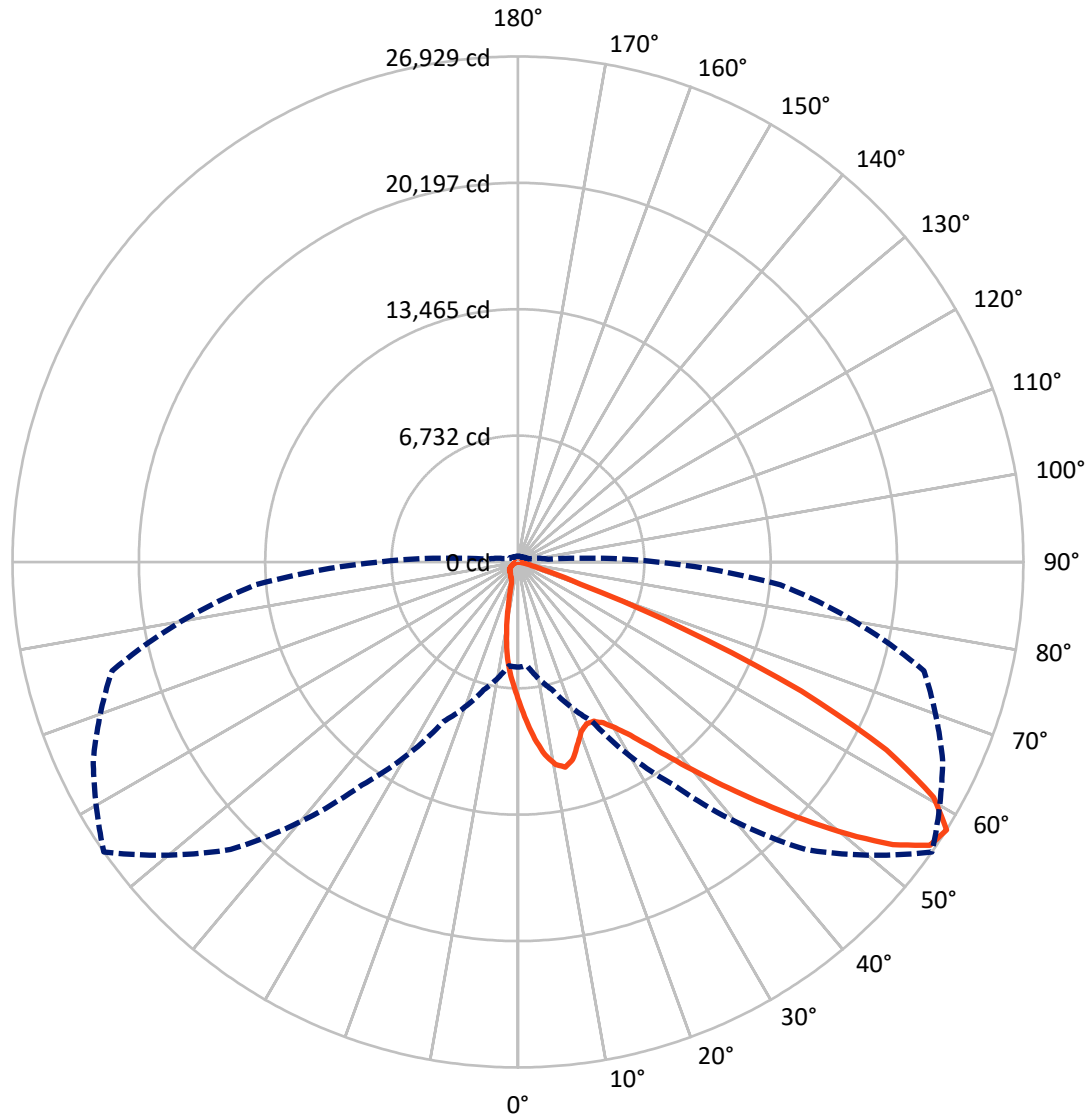
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc  
 Type II - Short - N/A

REPORT NUMBER: P951468  
CATALOG NUMBER: GALN-SB5C-840-U-AFL-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P951468  
 CATALOG NUMBER: GALN-SB5C-840-U-AFL-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2409.5	0.0	2409.5
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	28443.5	0.0	28443.5
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	30853.0	0.0	30853.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	691.8	2.2
10°-20°	1671.0	5.4
20°-30°	2673.5	8.7
30°-40°	4525.1	14.7
40°-50°	7429.3	24.1
50°-60°	8165.3	26.5
60°-70°	4683.6	15.2
70°-80°	957.0	3.1
80°-90°	56.4	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30853.0	100.0
0°-180°	30853.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P951468

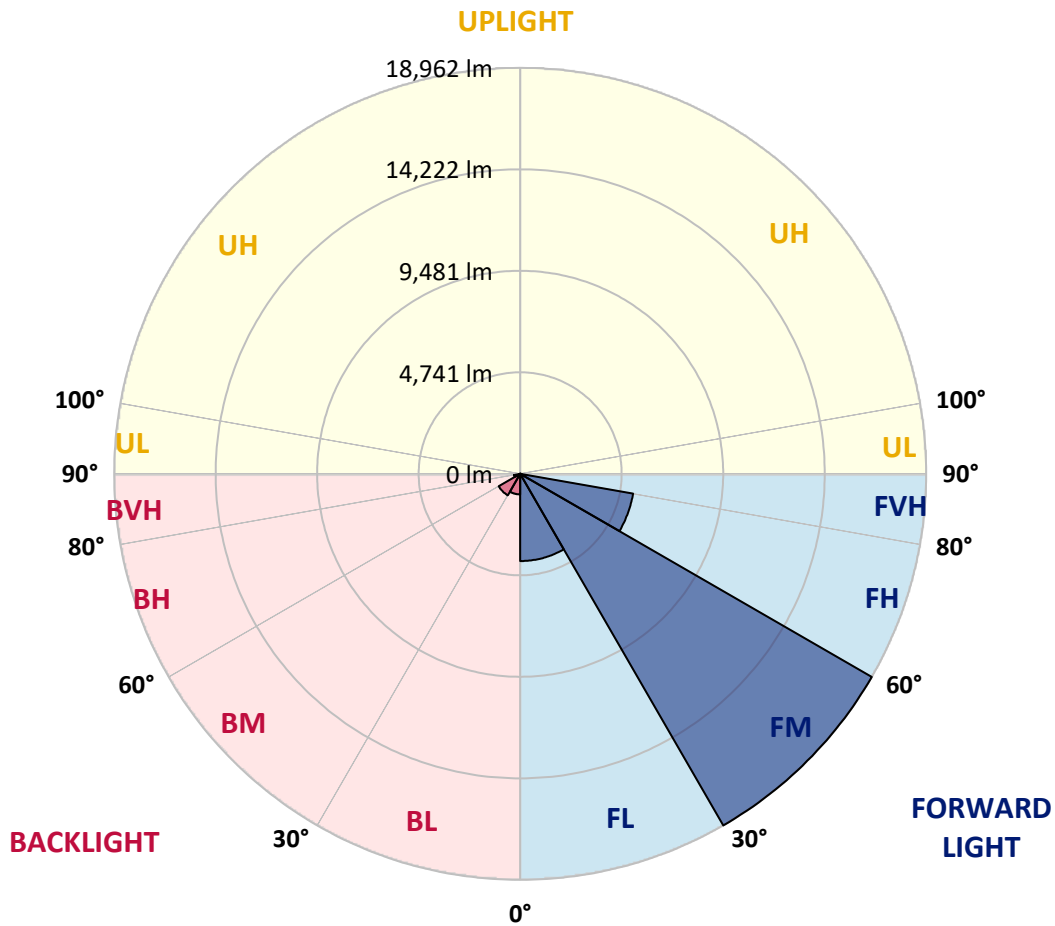
CATALOG NUMBER: GALN-SB5C-840-U-AFL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4074.3	13.2			
FM (30°-60°)	18962.5	61.5			
FH (60°-80°)	5354.1	17.4			G3/7500
FVH (80°-90°)	52.6	0.2			G1/100
BL (0°-30°)	961.9	3.1	B2/1000		
BM (30°-60°)	1157.2	3.8	B2/2500		
BH (60°-80°)	286.6	0.9	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short



REPORT NUMBER: P951468

CATALOG NUMBER: GALN-SB5C-840-U-AFL-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8
2.5°	9225.0	9109.0	9091.9	9069.0	8848.3	8682.8	8443.1	8180.6	7885.7	7585.1
5°	10657.6	10566.3	10549.1	10442.6	10191.5	9909.9	9483.8	8945.4	8395.6	7748.7
7.5°	10935.3	10918.2	10996.2	10992.4	10958.2	10735.6	10376.0	9734.9	8909.2	7950.4
10°	9696.8	9740.6	9972.7	10176.3	10726.1	11045.7	10967.7	10438.8	9438.1	8180.6
12.5°	8568.7	8517.3	8682.8	8913.0	9552.3	10503.5	11213.1	11026.7	10043.1	8441.2
15°	7861.0	7840.0	7933.3	8039.8	8526.8	9485.7	10927.7	11504.2	10625.2	8749.4
17.5°	7634.6	7617.4	7646.0	7672.6	7988.4	8730.4	10248.6	11797.2	11182.7	9101.4
20°	7819.1	7796.3	7792.5	7771.5	7902.8	8408.9	9634.1	11818.1	11683.0	9421.0
22.5°	8357.5	8330.9	8237.7	8153.9	8165.4	8452.6	9360.1	11608.8	12059.7	9719.7
25°	9333.5	9289.7	9095.7	8814.1	8635.3	8757.0	9402.0	11333.0	12419.3	9953.7
27.5°	10554.8	10497.8	10248.6	9830.0	9421.0	9272.6	9704.4	11142.7	12717.9	10132.5
30°	11751.5	11677.3	11431.9	11106.6	10509.2	10041.2	10250.5	11226.4	13073.7	10318.9
32.5°	13043.3	12972.9	12647.6	12244.2	11749.6	11119.9	10998.1	11635.4	13509.4	10579.6
35°	14677.5	14567.1	14104.8	13555.0	13029.9	12392.6	12010.2	12341.3	14089.6	10977.2
37.5°	16538.1	16389.7	15891.2	15132.2	14447.3	13733.9	13243.0	13311.5	14940.0	11509.9
40°	18292.2	18157.1	17696.7	16981.4	16121.4	15255.8	14732.6	14580.5	16113.8	12158.6
42.5°	19344.2	19222.5	19028.4	18725.9	18001.1	17118.3	16458.2	16129.1	17502.6	12934.8
45°	19403.2	19296.6	19557.3	19909.2	19766.6	19178.7	18374.0	17770.9	18897.1	13663.5
47.5°	18459.6	18387.3	19178.7	20407.7	21020.3	21267.6	20525.6	19275.7	20048.1	14186.6
50°	15887.4	15860.8	17489.3	19745.6	21497.8	23097.8	22795.3	20675.9	20940.4	14456.8
52.5°	13775.7	13678.7	14628.0	17626.3	20803.4	24060.4	25013.5	22049.5	21564.4	14508.2
55°	10448.3	10362.7	11553.6	14080.1	18564.2	23718.0	26636.3	23466.8	22011.5	14376.9
57.5°	5604.6	5551.4	7056.2	9371.5	14512.0	21663.3	26929.3	24966.0	22388.1	14028.7
60°	2182.1	2172.6	2735.7	4546.9	8819.8	17624.4	25451.1	25865.8	22624.1	13600.7
62.5°	1320.3	1348.8	1440.2	2041.3	3896.2	10948.7	22043.8	24842.3	22782.0	13208.8
65°	1092.0	1093.9	1105.3	1402.1	1866.3	4581.1	16595.2	21475.0	22392.0	12510.6
67.5°	936.0	953.1	996.9	1112.9	1316.5	2009.0	9554.2	16635.1	20019.6	10885.9
70°	738.2	761.0	816.2	915.1	1015.9	1257.5	3531.0	11068.5	15293.9	8205.3
72.5°	622.1	620.2	648.7	743.9	806.6	884.6	1358.4	6202.0	8888.3	3917.2
75°	481.3	500.3	536.5	622.1	660.2	641.1	736.3	2265.8	3184.7	1187.1
77.5°	376.7	391.9	424.2	508.0	546.0	454.7	424.2	810.4	1023.5	426.2
80°	169.3	182.6	289.2	374.8	445.2	313.9	230.2	414.7	454.7	194.1
82.5°	30.4	51.4	169.3	197.9	228.3	203.6	119.9	215.0	222.6	78.0
85°	1.9	3.8	59.0	72.3	91.3	66.6	36.1	85.6	74.2	26.6
87.5°	0.0	0.0	0.0	1.9	1.9	9.5	11.4	15.2	11.4	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P951468  
 CATALOG NUMBER: GALN-SB5C-840-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
7434.8	0°	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8	7434.8
7451.9	2.5°	7315.0	7044.8	6782.3	6567.3	6441.7	6228.7	6087.9	6065.0	6006.1	6057.4
7471.0	5°	7174.2	6691.0	6202.0	5764.5	5404.9	4940.7	4594.4	4448.0	4320.5	4364.2
7520.4	7.5°	7107.6	6344.7	5583.7	4836.1	4067.5	3325.5	2773.8	2543.6	2368.6	2393.3
7575.6	10°	7018.2	5985.1	4792.3	3650.8	2621.6	1889.1	1508.7	1367.9	1289.9	1291.8
7657.4	12.5°	6949.7	5555.2	3873.4	2475.1	1596.2	1206.2	1088.2	1054.0	1031.1	1033.0
7781.1	15°	6915.4	5049.1	2965.9	1649.4	1141.5	1021.6	993.1	977.9	962.6	960.7
7918.0	17.5°	6858.4	4486.0	2170.7	1204.3	998.8	956.9	932.2	915.1	896.1	892.3
8036.0	20°	6772.8	3846.8	1586.7	1017.8	936.0	903.7	869.4	846.6	823.8	820.0
8110.2	22.5°	6614.9	3171.4	1219.5	941.7	890.4	854.2	812.4	785.7	762.9	759.1
8074.0	25°	6321.9	2537.9	1027.3	894.2	850.4	806.6	761.0	724.8	703.9	700.1
7996.0	27.5°	5950.9	1993.8	932.2	850.4	799.0	759.1	707.7	673.5	654.4	650.6
7893.3	30°	5513.3	1535.3	877.0	800.9	738.2	703.9	658.3	629.7	618.3	618.3
7821.0	32.5°	5041.5	1227.1	854.2	751.5	684.9	646.8	610.7	599.3	595.5	593.6
7861.0	35°	4598.2	1065.4	842.8	711.5	637.3	601.2	586.0	587.9	595.5	595.5
7984.6	37.5°	4204.4	1014.0	837.1	683.0	595.5	563.1	572.6	589.8	582.2	582.2
8201.5	40°	3848.7	1019.7	833.3	662.1	561.2	542.2	561.2	547.9	528.9	527.0
8465.9	42.5°	3576.6	1067.3	825.7	644.9	540.3	527.0	519.4	498.4	496.5	500.3
8739.9	45°	3378.8	1109.1	823.8	637.3	517.5	492.7	483.2	462.3	500.3	509.9
8852.1	47.5°	3144.8	1109.1	823.8	610.7	479.4	469.9	454.7	431.9	469.9	479.4
8745.6	50°	2842.3	1038.7	791.4	580.3	449.0	443.3	416.6	388.1	380.5	386.2
8496.4	52.5°	2459.9	911.3	709.6	538.4	418.5	407.1	374.8	353.9	348.2	348.2
8049.3	55°	2024.2	762.9	599.3	477.5	386.2	365.3	342.4	332.9	327.2	323.4
7423.4	57.5°	1645.6	625.9	481.3	424.2	355.8	329.1	321.5	310.1	300.6	294.9
6900.2	60°	1350.7	492.7	397.6	376.7	325.3	300.6	298.7	283.5	258.7	254.9
6468.4	62.5°	1042.5	361.5	334.8	327.2	294.9	274.0	270.1	239.7	201.7	194.1
5855.8	65°	736.3	281.6	270.1	287.3	262.5	243.5	234.0	188.3	148.4	142.7
4900.7	67.5°	517.5	235.9	213.1	251.1	228.3	203.6	197.9	159.8	123.7	119.9
3706.0	70°	369.1	192.1	175.0	215.0	182.6	178.8	167.4	133.2	100.8	97.0
1834.0	72.5°	260.6	146.5	135.1	186.4	125.6	154.1	137.0	102.7	76.1	72.3
624.0	75°	192.1	104.6	95.1	108.4	91.3	116.1	97.0	68.5	47.6	45.7
281.6	77.5°	140.8	66.6	57.1	53.3	53.3	72.3	53.3	28.5	20.9	19.0
142.7	80°	98.9	30.4	26.6	22.8	20.9	17.1	7.6	3.8	1.9	1.9
49.5	82.5°	59.0	13.3	13.3	9.5	5.7	0.0	0.0	0.0	0.0	0.0
19.0	85°	13.3	5.7	5.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
7.6	87.5°	1.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF RI

